

Claims

- [c1] What is claimed is:
1. A device comprising:
 - a) load cell;with a shear measurement section;
with material being removed to form a plurality of slots;
with two or more slots on either side of said shear measurement section which increases deformation points.
 - [c2] 2. A device as claimed in claim 1 wherein said slots are connected to a hole within said load cell.
 - [c3] 3. A device as claimed in claim 1 wherein said slots are use to equalize stress at deformation points
 4. A device as claimed in claim 1 wherein said shear measurement section is a gage hole.
 - [c4] 5. A device as claimed in claim 1 which has strain gages located in said shear measurement section.
 - [c5] 6. A device as claimed in claim 4 which has strain gages located in said gage hole.
 - [c6] 7. A device as claimed in claim 1 wherein there are two slots above said shear measurement section and two

slots below said shear measurement section.

[c7] 8. A device as claimed in claim 4 wherein there are two slots above said shear measurement section and two slots below said gage hole.

[c8] 9. A device as claimed in claim 6 wherein there are two slots above said shear measurement section and two slots below said gage hole.

[c9] 10. A device as claimed in claim 5 wherein there are two slots above said shear measurement section and two slots below said gage hole.

[c10] 11. A process of measuring force loads using:
a) load cell;
with a shear measurement section;
with material being removed to form a plurality of slots;
with two or more slots on either side of said shear measurement section which increases deformation points.

[c11] 12. A process as claimed in claim 11 wherein said slots are connected to a hole within said load cell.

[c12] 13. A process as claimed in claim 11 wherein said slots are use to equalize stress at deformation points

14. A process as claimed in claim 11 wherein said shear measurement section is a gage hole.

- [c13] 15. A process as claimed in claim 11 which has strain gages located in said shear measurement section.
- [c14] 16. A process as claimed in claim 14 which has strain gages located in said gage hole.
- [c15] 17. A process as claimed in claim 11 wherein there are two slots above said shear measurement section and two slots below said shear measurement section.
- [c16] 18. A process as claimed in claim 14 wherein there are two slots above said shear measurement section and two slots below said gage hole.
- [c17] 19. A process as claimed in claim 16 wherein there are two slots above said shear measurement section and two slots below said gage hole.
- [c18] 20. A process as claimed in claim 15 wherein there are two slots above said shear measurement section and two slots below said gage hole.